Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

P5400-50
Job Sheet 176163

Part No: P5400-50 **Job Qty:** 1 ea
Part Name: Plasma® Long Line 5,400 lbs Safe Work Load (2,500 kg)

Part Weight: 0 lbs **Status:** Scheduled **Priority:** Medium
Job Created: 4/18/18 **Job Tracking No:**
Due Date: 4/20/18 **Created By:** Marie Lajeunesse
Type: SOLD **Description:**
Note: DWG P###-## Rev 1(TEO17-741) IPP Rev A 17.11.13 New issue DP Verify DD
Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup hrs	Standard Run Hrs	Workcenter/Supplier Workcenter / Supplier	Lead Time	Sign-off
110	**Purchasing**	1 pcs		4/19/18	0.00	0.00	Purchasing	W	
120	**Packaging**	1 pcs		4/19/18	0.00	0.00	Packaging2		
130	**QC**	1 pcs		4/19/18	0.00	0.00	QC6		
131	**Small Fab**	1 pcs		4/20/18	0.00	1.00	Small Fab-1		MC
132	**QC**	1 pcs		4/20/18	0.00	0.00	QC5		
135	**DC**	1 pcs		4/20/18	0.00	0.00	DC		
140	**Packaging**	1 pcs		4/20/18	0.00	0.00	Packaging3		DAS
150	**QC21-SA**	1 Ea		4/20/18	0.00	0.00	QC21		21 APR 18 2018

Part Op Descriptions: **110** - -Issue P/O to Tulmar; P/O_____ -Manufacture as per DWG P5400-50P -Certificate of Conformity is required
131 - 1-Engrave 1632T22 tags as per DWG sheet 7. 2-Attach first tag using 90177A218 ring to zipper on -39 bag, place second tag in front pocket of -39 bag. 3-Pack bag.
135 - Photocopy blue file OM-SLP Long line Rev 8

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
P5400-50P	Plasma® Long Line 5,400 lbs Safe Work Load (2,500 kg)	1 pcs (1 ea)	110-Purchasing	
1632T22	Aluminum Tag 1" X 2" X 0.04"	2 pcs (2 ea)	131-Small Fab	
600.1327	Long Line Carry Bag	1 Ea (1 ea)	131-Small Fab	
90177A218	Split Ring	2 Ea (2 ea)	131-Small Fab	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-Purchasing	P5400-50P – SO45282	1	0	0
131-Small Fab	1632T22	2	141	0
	600.1327	1	0	0
	90177A218	2	120	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

DART AEROSPACE

QA Closed: Date: Work Order update only ☐

Work Order: _____

Part No. _____

NCR No.

DISPOSITION

Rework ☐
Scrap ☐
Use-as-is ☐
Suspected Unapproved ☐

AGAINST DEPARTMENT/PROCESS

Skid-tub
Machinin
Thermoformin
Large Fa

Date :

Step #:

QTY Effe

Description Work Order Deviation

Root Cause

Environment	☐	☐	No Re-verfication	☐	Pressure/Forced	☐ Temperature/C
Design	☐	☐	Operator	☐	Bending	☐ Set-up
Doc/Data	☐	☐	Offset/Setup	☐	Centre Not Concentric	☐ BOM/Route
Equip/Tooling	☐	☐	Supplier	☐	Cracks	☐ Broken/Damag
Handling/Pre	☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐ Inspection Incc
Material	☐	☐	Use for Testing	☐	Cuffs	☐ Contaminatior
Internal Transport	☐	☐	Poor Information	☐	Crushing	☐ Countersink
Tribal Knowledge	☐	☐	Rushing	☐	Heat Treat	☐ Cut Too Short
LOA	☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐ Instructions In
Substation	☐	☐	Process Improvement	☐	Marks/Chatter	☐ Drill Holes
Past Expiry Date	☐	☐	Manufacturing Process			
Misidentified	☐	☐	Past Due	☐	OTHER :	

Wrong
nensions
r tolerance
ect
/issing
d
equence

Container No: S062283
Part: P5400-50
Job No: 176163
Serial No/Batch: S062283
Revision: 1
Inspector:
Date: 04/18/18

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-6200
Email: sales@dartaero.com
www.dartaerospace.com

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev I

Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

P5400-50
Job Sheet 168564

Part No: P5400-50 **Job Qty:** 1 ea

Part Name: Plasma® Long Line 5,400 lbs Safe Work Load (2,500 kg)

Part Weight: 0 lbs **Status:** Scheduled **Priority:** Medium

Job Created: 11/17/17 **Job Tracking No:**

Due Date: 1/3/18 **Created By:** Chantal Lavoie

Type: Stock **Description:**

Note: IPP Rev A 17.11.13 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup hrs	Standard Run Hrs	Workcenter/Supplier Workcenter / Supplier	Lead Time	Sign-off
110	**Purchasing**	1 pcs		1/3/18	0.00	0.00	Purchasing		AT 18/02/26
120	**Packaging**	1 pcs		1/3/18	0.00	0.00	Packaging2		AT 18/02/26 DAS
130	**QC**	1 pcs		1/3/18	0.00	0.00	QC6		35 MAR 0 2 2018
140	**Packaging**	1 pcs		1/3/18	0.00	0.00	Packaging3 DKG 002		
150	**QC21-SA**	1 Ea		1/3/18	0.00	0.00	QC21		DAS 21 MAR 0 2 2018

Part Op **110** - -Issue P/O to Tulmar; P/O 038417 -Manufacture as per DWG P5400-50P -Certificate of Conformity is Descriptions: required

NOV 20 2017

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
110-Purchasing	P5400-50P	1	0	0	0

Part Specifications

Specifications could not be found.

Container No: [illegible]

Plasma® Long Line 5,400 lbs Safe Work Load (2,500 kg)

PART NO: P5400 – 50
Serial No/Batch: S045282
Revision:
Operation: Packaging
Change No:

Mfg Date: 02/26/18
Job No: 168564

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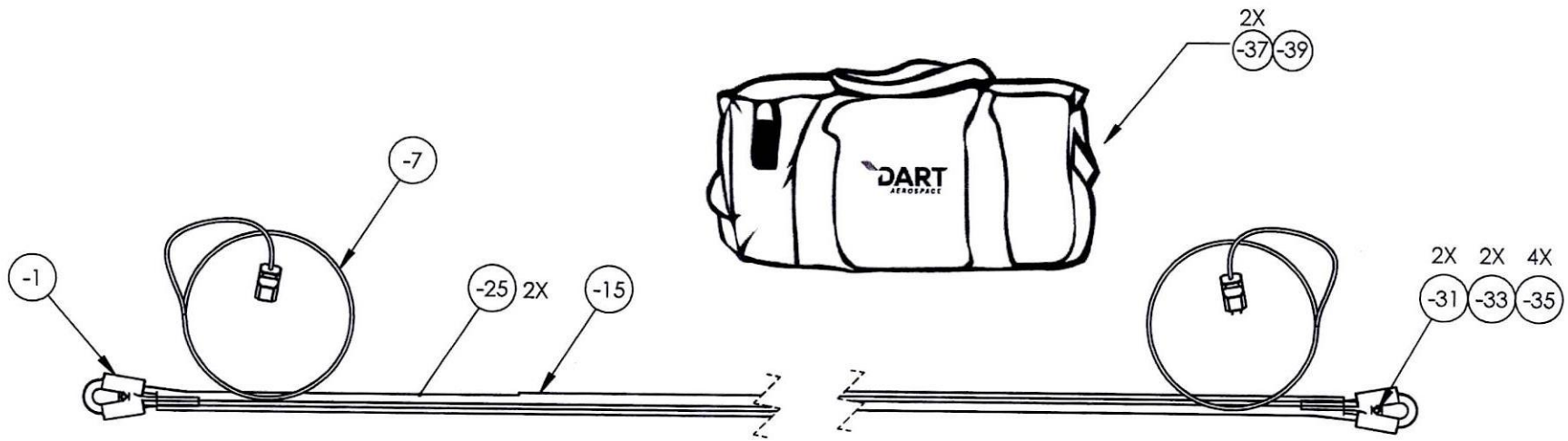
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION.	5/5/2017	SM	JAG

TEO ATTACHED



ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			X		-1	1	LINE/THIMBLE ASSEMBLY			2
			1	B/O	-3		ROPE		SEE TABLE 1, MODIFIED	2
			2	B/O	-5		THIMBLE	STEEL	SEE TABLE 1, MODIFIED	3
			2	B/O	-6		EPOXY	EPOXY	(SMOOTH CAST 45D)	2
		X			-7	1	WIRE ASSEMBLY			4
		1		B/O	-9		WIRE		14/3 SJTOW, MODIFIED	4
		1		B/O	-11		3-PRONG MALE SPADE PLUG		EL-PLUG-M (PASS & SEYMOUR # PS5965Y)	4
		1		B/O	-13		3-PRONG FEMALE SPADE PLUG		EL-PLUG-F (PASS & SEYMOUR # PS5969Y)	4
	X				-15	1	JACKET		SEE TABLE 2	5
	1			B/O	-17		WEBBING		SEE TABLE 2	5
	1			B/O	-19		1" VELCRO	NYLON	1" HOOK FASTENING TAPE (J. ENNIS FABRICS # VELSE9004)	5
	1			B/O	-21		1" VELCRO	NYLON	1" LOOP FASTENING TAPE (J. ENNIS FABRICS # VELSE9005)	5
1	1			B/O	-23		2" VELCRO	NYLON	2" HOOK FASTENING TAPE (J. ENNIS FABRICS # VELSE9006)	5,6
X				B/O	-25	2	END RETURN		SEE TABLE 3	6
1				B/O	-27		WEBBING		TOP GUN MATERIAL, MEDIUM BLUE	6
1				B/O	-29		2" VELCRO	NYLON	2" LOOP FASTENING TAPE (J. ENNIS FABRICS # VELSE9007)	6
				B/O	-31	2	BOLT	STEEL	AN3-10A	1
				B/O	-33	2	NUT	STEEL	MS21044-N3	1
				B/O	-35	4	WASHER	STEEL	AN960-10	1
					-37	2	TAG		PAPER	7
				B/O	-39	1	BAG		DART AEROSPACE BAG (600.1327)	1
ASSY -25	ASSY -15	ASSY -7	ASSY -1							

NOTE:
1. CONSULT LONG LINE ASSEMBLY MANUAL FOR PRODUCT ASSEMBLY.

DART AEROSPACE

TITLE: LONG LINE

DWG NO.: P###-##

REV: 1

MAT'L	
HEAT TREAT	
FINISH	
SPEC	
DRAWN BY:	SM 05/05/2017
CHECKED:	DD 05/08/2017
OPPS APPR:	AA 05/10/2017
QA APPR:	JL 05/10/2017
APPROVED:	JAG 05/17/2017

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ± 5°
.X ± .1 SURFACES = 125

1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL

SCALE 1:12 | DATE 5/5/2017 | SHEET 1 OF 7

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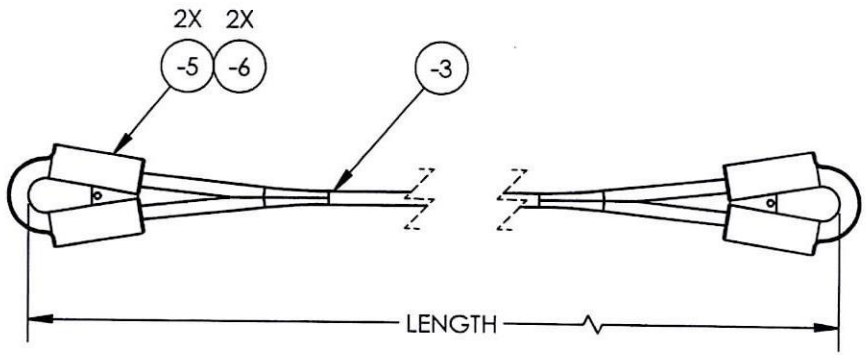
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

TEO ATTACHED

TABLE 1

P####	-## (LENGTH FT.)	-3 (ROPE)	-5 (THIMBLE)
2500	50	3/8" PLASMA® 12 STRAND	G715PC
	100		
	150		
	200		
	CUSTOM		
3000	50	7/16" PLASMA® 12 STRAND	G719PC
	100		
	150		
	200		
	CUSTOM		
4400	50	1/2" PLASMA® 12 STRAND	
	100		
	150		
	200		
	CUSTOM		
5400	50	9/16" PLASMA® 12 STRAND	
	100		
	150		
	200		
	CUSTOM		
7300	50	5/8" PLASMA® 12 STRAND	G725PC
	100		
	150		
	200		
	CUSTOM		
9700	50	3/4" PLASMA® 12 STRAND	
	100		
	150		
	200		
	CUSTOM		
13200	50	7/8" PLASMA® 12 STRAND	G735PC
	100		
	150		
	200		
	CUSTOM		
15700	50	1" PLASMA® 12 STRAND	G745PC
	100		
	150		
	200		
	CUSTOM		



NOTE:
1. CUT AND SPLICE ROPE WITH THIMBLES IN ACCORDANCE WITH THE LONG LINE ASSEMBLY MANUAL AND CUT LENGTH CALCULATOR.

-1
LINE/THIMBLE ASSEMBLY

DART AEROSPACE

TITLE	LONG LINE
DWG NO.	P####-##-1
REV	1
MAT'L	
HEAT TREAT	
FINISH	
SPEC	
DRAWN BY:	SM 05/05/2017
CHECKED:	DD 05/08/2017
OPPS APPR:	AA 05/10/2017
QA APPR:	JL 05/10/2017
APPROVED:	JAG 05/17/2017
SCALE	1:6
DATE	5/5/2017
SHEET	2 OF 7

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8
.XX ± .03 ANGLES ±1°
.X ± .1 SURFACES = 125
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL

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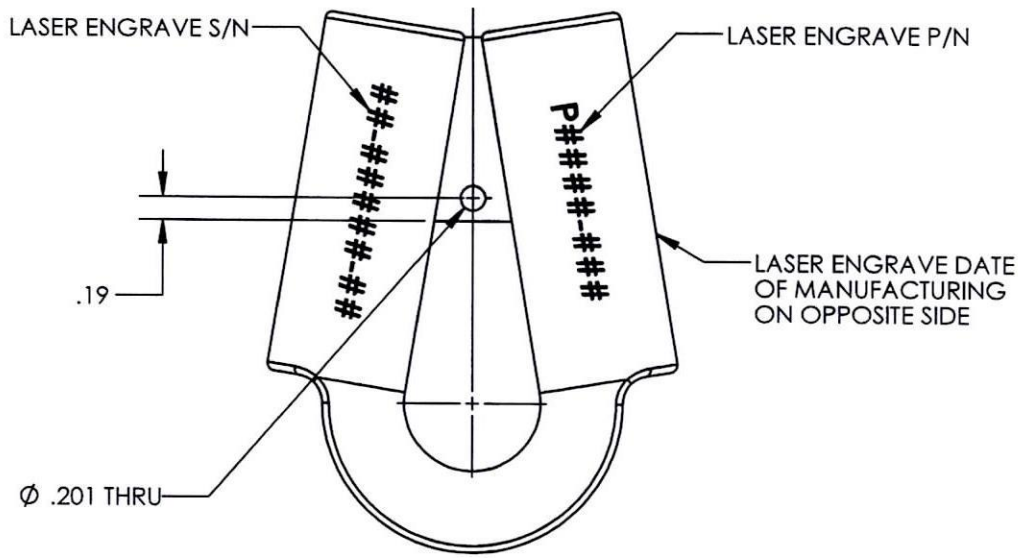
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

TEO ATTACHED



NOTE:
1. USE THIMBLE REFERENCED TO IN TABLE 1.

-5

THIMBLE

DART AEROSPACE

TITLE	LONG LINE
DWG NO.	P####-##-5
REV	1
MAT'L	STEEL
HEAT TREAT	
FINISH	GRAY POWDERCOAT
SPEC	
DRAWN BY:	SM 05/05/2017
CHECKED:	DD 05/08/2017
OPPS APPR:	AA 05/10/2017
QA APPR:	JL 05/10/2017
APPROVED:	JAG 05/17/2017
SCALE	2:3
DATE	5/5/2017
SHEET	3 OF 7

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8
.XX ± .03 ANGLES ±1°
.X ± .1 SURFACES = 125 √

1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL

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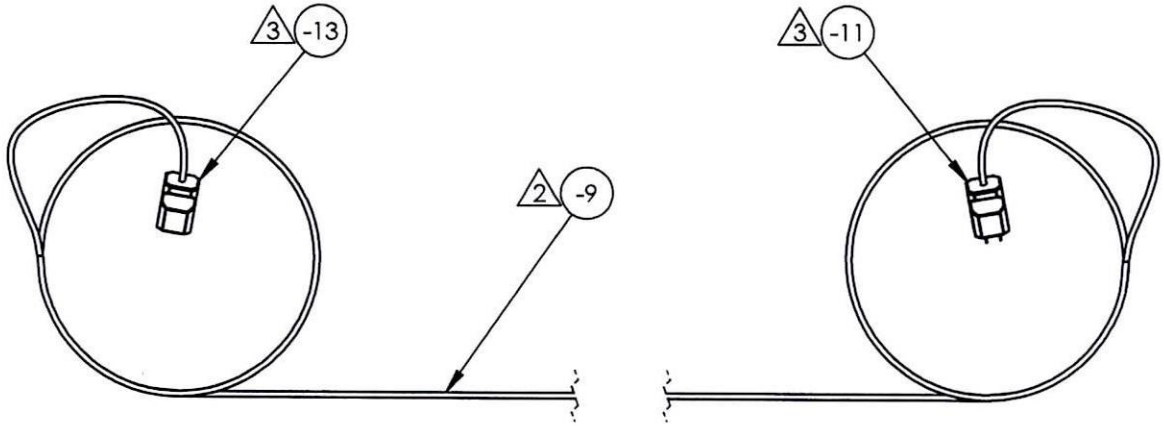
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

TEO ATTACHED



NOTES:
1. WIRING REQUIREMENTS MAY VERY UPON CUSTOMER REQUEST.
2. DETERMINE OVERALL WIRE LENGTH USING LONG LINE ASSEMBLY MANUAL.
3. SPLICE WIRE ENDS IN ACCORDANCE WITH LONG LINE ASSEMBLY MANUAL.

-7

WIRE ASSEMBLY

DART AEROSPACE

TITLE	LONG LINE
DWG NO.	P####-##-7
REV	1
MAT'L	
HEAT TREAT	
FINISH	
SPEC	
DRAWN BY:	SM 05/05/2017
CHECKED:	DD 05/08/2017
OPPS APPR:	AA 05/10/2017
QA APPR:	JL 05/10/2017
APPROVED:	JAG 05/17/2017
SCALE	1:8
DATE	5/5/2017
SHEET	4 OF 7

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8
.XX ± .03 ANGLES ±1°
.X ± .1 SURFACES = 125
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL

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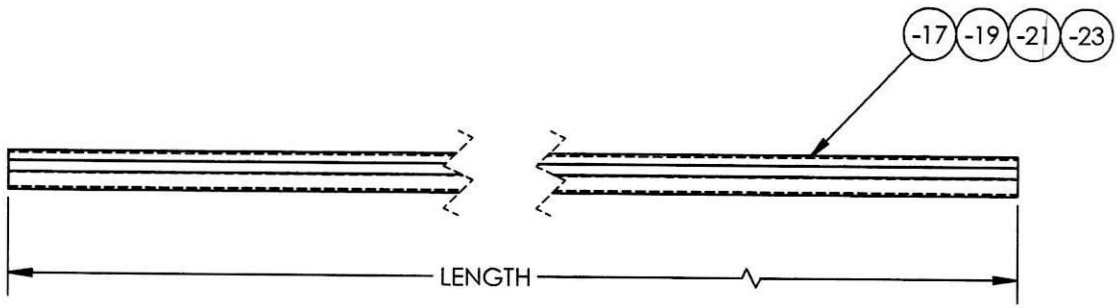
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

TEO ATTACHED



NOTES:
1. PROVIDE -17, -19, & -21 MATERIALS TO VENDOR.
2. CONSULT LONG LINE ASSEMBLY MANUAL FOR JACKET LENGTH.

TABLE 2

LONG LINE	-17 MATERIAL WIDTH	LENGTH
P2500-##	MURDOCK WEBBING CO. INC 4 1/8" SINGLE-WALLED TUBULAR WEB ORANGE	SEE NOTE 2
P3000-##		
P4400-##		
P5400-##		
P7300-##	MURDOCK WEBBING CO. INC 5 1/8" SINGLE-WALLED TUBULAR WEB ORANGE	
P9700-##		
P13200-##		
P15700-##	MURDOCK WEBBING CO. INC 6 1/8" SINGLE-WALLED TUBULAR WEB ORANGE	

(-15)

JACKET

DART AEROSPACE

TITLE: LONG LINE

DWG NO.: P####-##-15 REV: 1

MAT'L	
HEAT TREAT	
FINISH	
SPEC	
DRAWN BY:	SM 05/05/2017
CHECKED:	DD 05/08/2017
OPPS APPR:	AA 05/10/2017
QA APPR:	JL 05/10/2017
APPROVED:	JAG 05/17/2017

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8
.XX ± .03 ANGLES ±1°
.X ± .1 SURFACES = 125
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL

SCALE 1:4 | DATE 5/5/2017 | SHEET 5 OF 7

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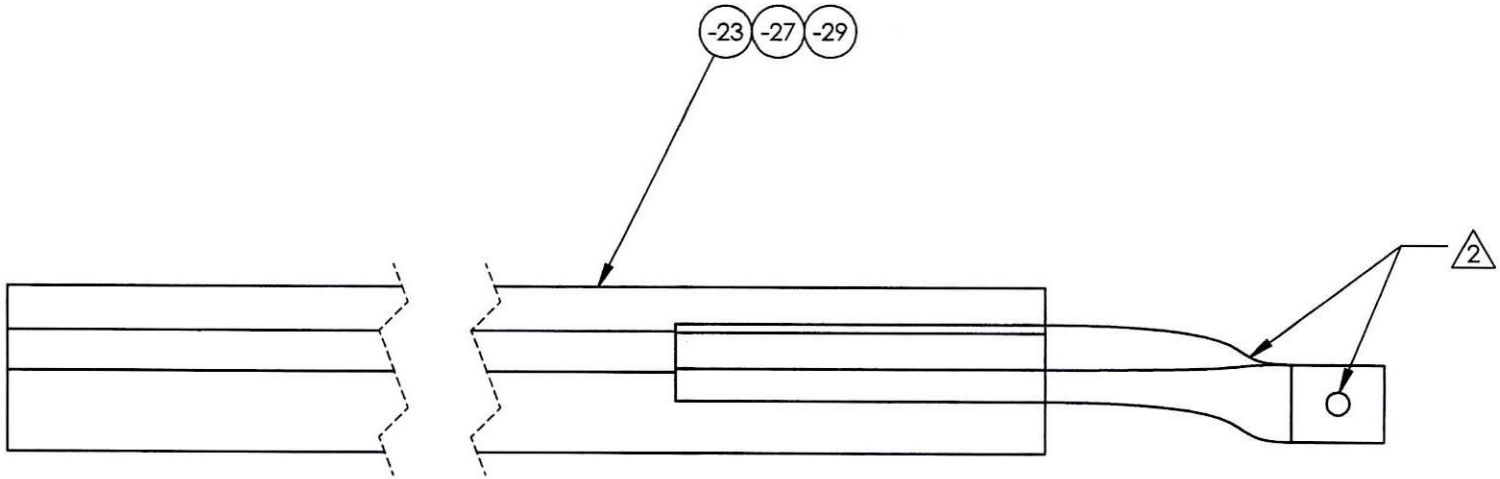
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

TEO ATTACHED



NOTES:
1. PROVIDE MATERIALS -23, -27, & -29 TO VENDOR.
2. WEBBING AND EYELETS NOT PROVIDED

TABLE 3	
LONG LINE	END RETURN
P2500-##	ER-3044
P3000-##	ER-3044-1
P4400-##	ER-5473
P5400-##	
P7300-##	
P9700-##	ER-9713
P13200-##	
P15700-##	ER-15002

-25

END RETURN

DART AEROSPACE

TITLE	LONG LINE
DWG NO.	P####-##-25
REV	1
MAT'L	
HEAT TREAT	
FINISH	
SPEC	
DRAWN BY:	SM 05/05/2017
CHECKED:	DD 05/08/2017
OPPS APPR:	AA 05/10/2017
QA APPR:	JL 05/10/2017
APPROVED:	JAG 05/17/2017
SCALE	2:3
DATE	5/5/2017
SHEET	6 OF 7

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8
.XX ± .03 ANGLES ±1°
.X ± .1 SURFACES = 125
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL

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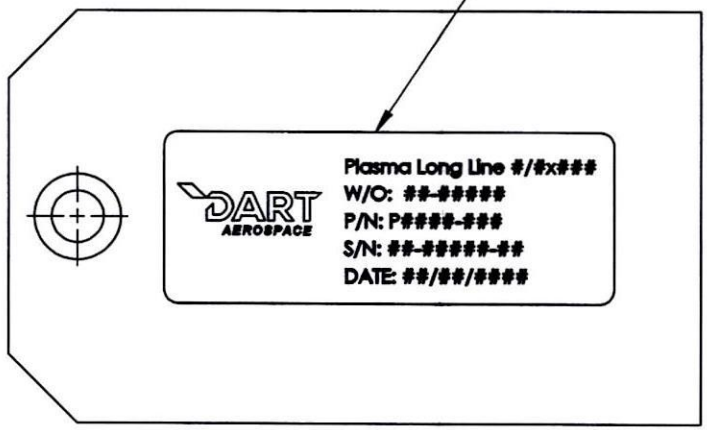
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

TEO ATTACHED

PRINT:
PLASMA LONG LINE (ROPE DIAMETER (IN.))X(LENGTH (FT.))
W/O: ##-#####
P/N: P####-###
S/N: ##-#####-##
DATE: ##/##/####



NOTE:
1. ATTACH FIRST TAG TO ZIPPER ON -39, PLACE SECOND TAG IN FRONT POCKET ON -39.

-37
TAG

DART AEROSPACE

TITLE	LONG LINE
DWG NO.	P####-##-37
REV	1
MAT'L	
HEAT TREAT	
FINISH	
SPEC	
DRAWN BY:	SM 05/05/2017
CHECKED:	DD 05/08/2017
OPPS APPR:	AA 05/10/2017
QA APPR:	JL 05/10/2017
APPROVED:	JAG 05/17/2017

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8
.XX ± .03 ANGLES ±1°
.X ± .1 SURFACES = 125
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL

SCALE	DATE	SHEET
3:4	5/5/2017	SHEET 7 OF 7

DART AEROSPACE
Hawkesbury, Ontario, Canada

ENGINEERING ORDER # TEO17-741

SCALE: NTS

SHEET 1 OF 1

DRAWING NO. P###-## REV: 1 EFF.: NEXT ORDER

CHANGE CATEGORY

TITLE: LONG LINE

[X] MAJOR [ ] MINOR DATE 17.11.08

APPROVED: WM 11/14/2017 MFG. APPR.: DD 11/14/2017

CHECKED: WM 11/14/2017 DRAWN: VM 11/09/2017

TRANSACTION CODE (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: UPDATE TO DRAWING CALLOUTS FOR NEW SUPPLIER OF LONG LINES

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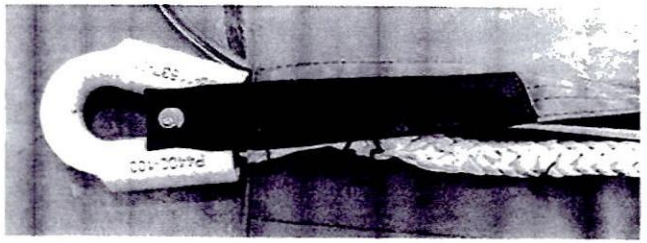
1) JACKET MUST BE MADE WITH REFERENCE TO DRAWING P###-## REV 1, LONG LINE ASSEMBLY MANUAL AND SAMPLE PROVIDED TO TULMAR WITH P/N P5400-50 S/N AC09006

2) ACCEPTABLE TO USE EL-PLUG-M (PASS & SEYMOUR #PS5965Y) OR McMaster PLUG #7216K5
ACCEPTABLE TO USE EL-PLUG-F (PASS & SEYMOUR #PS5969Y) OR McMaster PLUG #7216K6

3) ACCEPTABLE TO USE SJEOOW OR SJTOW ELECTRICAL WIRE

4) LASER ENGRAVE S/N AND P/N ON THIMBLE IS OPTIONAL

5) IDENTIFICATION WITH SEWN ON LABEL AT LOCATION SHOWN TO INCLUDE: "Dart Aerospace Ltd. P/N: P###-##, S/N: XX-XXXX-XX, MANUFACTURE DATE: MM/DD/YYYY", WHERE THE P###-## WILL BE DEPENDENT ON THE MODEL ORDERED PER DRAWING



6) SELECTED COVER TO EXTEND THROUGH THIMBLE ENDS TO PREVENT ABRASION OF ROPE BY THIMBLE. THEY MUST BE THE SAME ON BOTH ENDS OF THE LONG LINE
ACCEPTABLE TO USE ONE OF: SLEEVE-DB-TEXSXX
WEARPADXX

7) INSPECT CONDITION OF ROPE AT THE END OF THE ROPE RETURN AND THIMBLES. FRAYING OR DAMAGE TO ROPE IS NOT ACCEPTABLE. INSPECT JACKETS AND COVER. SEWING TO BE CONTINUOUS AND WITH NO LOOSE THREADS. NO DAMAGE TO THE JACKETS IS ACCEPTABLE. ELECTRICAL CABLE MUST BE FREE OF DAMAGE OR NICKS TO THE INSULATION WHERE VISIBLE (FULL INSPECTION OF WIRE IS NOT REQUIRED). ELECTRICAL CONNECTORS MUST BE SECURELY INSTALLED. PERFORM CONTINUITY CHECK TO ENSURE THERE IS NO SHORT AND THAT CABLES ARE CONNECTED PROPERLY.

8) ACCEPTABLE TO USE Plasma® 12 STRAND ROPE OR Dyneema® SupreemX-12™ ROPE

9) PART MUST BE RECEIVED WITH CERTIFICATE OF CONFORMITY FROM TULMAR

10) IT IS ACCEPTABLE TO BUILD THE LONG LINE P###-## UTILIZING COMMON MANUFACTURING PRACTICES FROM Atlantic Braids AND Tulmar.
DART ASSEMBLY MANUAL IS FOR REFERENCE ONLY

11) ELECTRICAL WIRE LENGTH TO EXTEND 6' PAST THE BASE OF THE THIMBLE ON BOTH ENDS

12) JACKET LENGTH TO COVER THE ROPE UP TO AND INCLUDING THE END RETURN TAPER ON BOTH ENDS. JACKET LENGTH WILL BE DEPENDENT ON MODEL LENGTH

DOCUMENTS EFFECTED: [ ] PATTERN [ ] INSTALL INSTRUCTIONS [X] BOM

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER
PO038417

Supplier: TUL001-VC
Tulmar Safety Systems
1123 Cameron St
Hawkesbury
ON
K6A 2B8 Canada
Phone: 613 632 1282
Fax: 613 632 2030

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038417
PO Date: 11/20/17
Due Date: 2/5/18
Purchase Order Revision:
Revision Date: 1/24/18
Ship-To Contact: Baker, DianePhone: dbaker@dartaero.com
Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

RECEIVED $

E-MAILED

Items

Line Item	Part	Supplier Part No	Item No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
2	P3000-100P			Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg) As per dwg P3000-100 Rev. 1	Firmed	2/23/18	1 Ea	0 Ea	1 Ea	$1,495.00/Ea	$1,495.00
Line Item Note B168559											
3	P3000-150P			Plasma® Long Line -Manufacture as per DWG P3000-150 Rev 1	Firmed	2/5/18	2 Ea	0 Ea	2 Ea	$2,035.00/Ea	$4,070.00
Line Item Note B168558											
4	P3000-50P			Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg) As per Dwg P3000-50 Rev. 1	Firmed	2/5/18	8 pcs	0 pcs	8 pcs	$960.00/pcs	$7,680.00
Line Item Note B168560											
5	P4400-100P			Plasma® Long Line 4,400 lbs Safe Work Load (2,000 kg) As Per Dwg P4400-100 Rev. 1	Firmed	2/23/18	1 Ea / 1K	0 Ea	1 Ea AT 18/02/21	$1,705.00/Ea	$1,705.00
Line Item Note B168561											
6	P4400-150P			Plasma® Long Line 4,400 lbs Safe Work Load (2,000 kg) As per Dwg P4400-150 Rev. 1	Firmed	2/5/18	1 pcs / 1K	0 pcs	1 pcs AT 18/02/26	$2,340.00/pcs	$2,340.00
Line Item Note B168562											
7	P4400-50P			Plasma® Long Line 4,400 lbs Safe Work Load (2,000 kg) As Per Dwg P4400-50 Rev. 1	Partial	2/5/18	2 pcs	2 pcs	0 pcs	$1,070.00/pcs	$0.00
Line Item Note B168563											

Items

Line Item	Part	Supplier Part No	Item No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
					Firmed	2/23/18	2 pcs	0 pcs	2 pcs	$1,070.00/pcs	$2,140.00
					Sub Total:		**4**	**2**	**2**		**$2,140.00**
8	P5400-50P			Plasma® Long Line 5,400 lbs Safe Work Load (2,500 kg) AS Per Dwg P5400-50 Rev. 1	Firmed	2/5/18	1 pcs /	0 pcs 1X	1 pcs	$1,185.00/pcs AT 18/02/26	$1,185.00
Line Item Note B168564											
10	P4400-25P			Plasma® Long Line 4,400 lb Safe Work Load (2,000 Kg) sales quote: 19062	Firmed	3/5/18	1 Ea	0 Ea	1 Ea	$701.80/Ea	$701.80
Line Item Note B170066											
11	P4400-50P			Plasma® Long Line 4,400 lbs Safe Work Load (2,000 kg) As Per Dwg P4400-50 Rev. 1	Firmed	2/5/18	2 pcs /	0 pcs 2X	2 pcs	$1,070.00/pcs AT 18/02/21	$2,140.00
Line Item Note B169944											
12	P3000-50P			Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg) As per Dwg P3000-50 Rev. 1	Firmed	2/5/18	2 pcs	0 pcs	2 pcs	$960.00/pcs	$1,920.00
Line Item Note B169943											
13	P3000-25P			Plasma® Long Line 3,000 lbs Safe Work Load (1,350 kg) As Per Dwg P3000-25	Firmed	2/22/18	1 pcs /	0 pcs 1X	1 pcs	$725.00/pcs AT 18/02/21	$725.00
Line Item Note job # 169697										**Grand Total:**	**$26,101.80**

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

CL

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)
A012 CHEMICAL AND PHYSICAL TEST REPORTS
A016 PERSONNEL QUALIFICATION
A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENT
A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
A049 SUPPLIER AWARENESS

Plex 2/15/18 8:23 AM dart.lavoie.chantal

PACKING SLIP

TULMAR

Tulmar Safety Systems Inc.
1123 Cameron Street
Hawkesbury, ON K6A 2B8
Tel: 613-632-1282
Fax: 613-632-2030
GST R132478223
MID : XOTULSAF1123HAW
email: info@tulmar.com

Packing Slip No 62713 **Page** 1

Ship Date 2/23/2018

Bill To:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Ship To:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Order number	Sales order date	Account number	Loc	Account manager
35465	11/21/2017	CDART100	H	Francine Bigras

PO number	Ship via	Shipping Terms
PO038417	Pick-Up	

Item No. / Description	Quantity ordered	UOM	Qty Shipped/Returned	Quantity on back order
REV 1: Pricing update - Dec. 22/17				
87348-001 Long Line, 50ft, 9/16" Plasma Drawing No: P5400-50 + TEO17-741 DWG Rev: 1 SF 43752	1.00	EA	1.00	
Lot no.: BATCH0000000001	1.00			
87307-004 Long Line, 25ft, 1/2" Plasma Drawing No: P4400-25 + TEO17-741 DWG Rev: 1 SF 44192	1.00	EA	0.00	1.00
Lot no.:	0.00			

DAS
38
9-89

Certificate of Conformance

☐ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.
If any questions or concerns, please contact QA Manager @613-632-1282 ext. 225.

Authorized Inspector

Date: FEB 23 2018

PACKING SLIP

Tulmar Safety Systems Inc.
1123 Cameron Street
Hawkesbury, ON K6A 2B8
Tel: 613-632-1282
Fax: 613-632-2030
GST R132478223
MID : XOTULSAF1123HAW
email: info@tulmar.com

Packing Slip No **Page**
63133 1

Ship Date
4/9/2018

Bill To:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Ship To:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Order number	Sales order date	Account number	Loc	Account manager
35815	3/12/2018	CDART100	H	Francine Bigras

PO number	Ship via	Shipping Terms
RMA-019	Pick-Up	

Item No. / Description	Quantity ordered	UOM	Qty Shipped/Returned	Quantity on back order
R&O MISC Misc R&O Item 87348-001: Long Line Rework (P5400-50)	1.00	EA	1.00	
R&O MISC Misc R&O Item 87307-002: Long line Rework (P4400-150)	1.00	EA	1.00	

TULMAR
ENGINEERED FOR PROTECTION

Returned Material Authorization Report

February 6, 2012

RMA #: 18-019 **Open Date: March 2, 2019**

Customer Name: Dart	**Customer Contact:** Robert Aboud
Tulmar Part No: See below	**Serial No:**
Reference Order No: SO 35465	**Original Ship Date:** Feb. 2018
Detailed Problem Description: Need to rework per purchasing instructions: (1) x (87307-004 / P4400-25); 1 x P5400-50 (87348-001/P5400-50); 1 x (87307-002/P4400-150); (1) x 87347-002/P3000-100)/	

Investigation Summary

Disposition

Send back to Atlantic Braids for rework. - NEW SALES ORDER # 35815

Shipping Information

Shipping Date: **Shipping Charges:** ☐ Tulmar ☐ Customer

Method: ☐ UPS ☐ Purolator ☒ FedEx ☐ Other

Reviewed & Closed By: _____ **Date:** _____

Quality Assurance Manager